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0256628

**INFORMATION DISCLOSURE STATEMENT
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Applicant: FIRE et al.

Appln. No.: 09/215,257

Filing Date: December 18, 1998

Date: January 22, 2001

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Examiner: D. NIKODEM

Group Art Unit: 1633-1635

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Examiner

Karen A. Lacourriere

Date Considered:

02-09-01

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FOREIGN PATENT DOCUMENTS

| | | Document Number | Date MM/YYYY | Country | Inventor Name | Class | SubClass | English Abstract | | Translation Readily Available | |
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OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

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|-----|-----|--|--|--|--|---|
| D?N | YR | Montgomery, M., and Fire, A.. (1998) Double-stranded RNA as a mediator in sequence-specific genetic silencing and co-suppression. Trends in Genetics 14: 255-258 | | | | |
| ↓ | ZR | Harfe, B., et al. (1998) Analysis of a Caenorhabditis elegans twist homolog identifies conserved and divergent aspects of mesodermal patterning. Genes and Development 12: 2623-2635 | | | | |
| ↓ | AAR | Tabara, H., et al. (1998) RNAi in C. elegans: Soaking in the genome sequence. Science 282: 430-431 | | | | ✓ |
| | BBR | | | | | |

Examiner: *John A. Lacon*

Date Considered: 07-31-02

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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Dkt. No.

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Client Ref.

256628

**INFORMATION DISCLOSURE STATEMENT
BY APPLICANT**

Applicant: FIRE et al.

Appln. No.: 09/215,257

Filing Date: December 18, 1998

Date: March 18, 1999

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Examiner: Unknown

Group Art Unit: 1649

U.S. PATENT DOCUMENTS

| Examiner's Initials* | | Document Number | Date MM/YYYY | Name (Family Name of First Inventor) | Class | Sub Class | Filing Date (if appropriate) |
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| | | | | | | |
|-----|-----|---|--|--|--|--|
| DPN | YR | Timmons, L., and Fire, A. (1998) Specific interference by ingested dsRNA. Nature, 395: 854. | | | | |
| I - | ZR | Montgomery, M.K., et al., (1998) RNA as a target of double-stranded RNA-mediated genetic interference in Caenorhabditis elegans. Proc. Natl. Acad. Sci. 95:15502-15507. ✓ | | | | |
| ↓ | AAR | Fire, A., et al., (1991) Production of antisense RNA leads to effective and specific inhibition of gene expression in C. elegans muscle. Development 113: 503-514. | | | | |
| ↓ | BBR | Grieson, D. et al., (1991) Does co-suppression of sense genes in transgenic plants involve antisense RNA? Trends in Biotechnology 9:122-123 | | | | |

Examiner: Karen A. LaComber

Date Considered: 07-31-02

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**INFORMATION DISCLOSURE STATEMENT
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Examiner: Unknown

Group Art Unit: 1649

U.S. PATENT DOCUMENTS

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|-----|-----|--|--|--|--|--|
| DPN | YR | Nellen, W., and Lichtenstein, C. (1993) What makes an mRNA anti-sensitive? Trends in Biochemical Sciences 18: 419-423. | | | | |
| | ZR | Guo, S. and Kempfues, K. (1995) par-1, a gene required for establishing polarity in C. elegans embryos, encodes a putative Ser/Thr kinase that is asymmetrically distributed. Cell 81: 611-620 | | | | |
| | AAR | Matzke, M.A., and Matzke, A.J.M. (1995) How and why do plants inactivate homologous (trans)genes? Plant Physiology 107: 679-685 | | | | |
| | BBR | Metzlaff, M., et al., (1997) RNA-mediated RNA degradation and chalcone synthetase A silencing in petunia. Cell 88: 845-854 | | | | |

Examiner: *Karen A. Jacobson*

Date Considered: 07-31-02

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Examiner: Unknown

Group Art Unit: 1649

U.S. PATENT DOCUMENTS

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| PRN | YR | Ratcliff, F., et al., (1997) A similarity between viral defense and gene silencing in plants. Science 276: 1588-1560 | | | | | | | | | |
| | ZR | Jorgensen, R.A., et al., (1998) An RNA-based information superhighway in plants. Science 279: 1486-1487 ✓ | | | | | | | | | |
| | AAR | Waterhouse, P.M., et al., (1998) Virus resistance and gene silencing in plants can be induced by simultaneous expression of sense and antisense RNA. Proc. Natl. Acad. Sci. 95: 13959-13964. ✓ | | | | | | | | | |
| | BBR | Ngô, H., et al., (1998) Double-stranded RNA induces mRNA degradation in Trypanosoma brucei. Proc. Natl. Acad. Sci. 95: 14687-14692 ✓ | | | | | | | | | |

Examiner *Karen A. LaCombe*

Date Considered: 07-31-02

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Examiner: Unknown

Group Art Unit: 1649

U.S. PATENT DOCUMENTS

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|-----|-----|--|---|--|--|--|
| DPN | YR | Kennerdell, J., and Carthew, R. (1998) Drosophila frizzled and frizzled2 act in the wingless pathway as determined by dsRNA-medication genetic interference. Cell 95: 1017-1026 | ✓ | | | |
| | ZR | Jorgensen, R.A., et al., (1999) Do unintended antisense transcripts contribute to sense co-suppression in plants? Trends in Genetics 15: 11-12 | ✓ | | | |
| | AAR | Misquitta, L., and Paterson, B.M. (1999) Targeted disruption of gene function in Drosophila by RNA interference (RNA-i): A role for nautilus in embryonic somatic muscle formation. Proc. Natl. Acad. Sci. 96: 1451-1456 | ✓ | | | |
| | BBR | | | | | |

Examiner: *Karen A. Lamon*

Date Considered: 07-31-02

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Examiner: Unknown

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|-----|-----|---|--|--|--|--|--|--|--|--|--|
| DPN | YR | Sharp, P.A. (1999) RNAi and double-stranded RNA. Gene and Development 13: 139-141 | | | | | | | | | |
| | ZR | Seydoux, G., et al. (1996) Repression of gene expression in the embryonic germ lineage of C. elegans. Nature 382: 713-716 | | | | | | | | | |
| | AAR | Stam, M., et al. (1997) The silence of genes in transgenic plants. Annals of Botany 79: 3-12 | | | | | | | | | |
| | BBR | | | | | | | | | | |

Examiner: *Karen A. Brown*

Date Considered: 07-31-02

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|-----|-----|--|--|--|--|--|
| DPN | YR | Nellen, W., and Lichtenstein, C. (1993) What makes an mRNA anti-sense-itive? Trends in Biochemical Sciences 18: 419-423 | | | | |
| | ZR | Proud, C.G. (1995) PKR: A new name and new roles. Trends in Biochemical Sciences 20: 241-246 | | | | |
| | AAR | Jacobs, B.L., and Langland, J.O. (1996) When two strands are better than one: The mediators and modulators of the cellular responses to double-stranded RNA. Virology 219: 339-349 | | | | |
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Date Considered:

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